

Nvidia 3D Vision V2 battery replacement tutorial

1. Tools needed

- T3 torx screwdriver (very small star-shaped point)
- LiPo battery 70 mAh 3.7V 401120
- Small flat screwdriver
- Soldering iron with fine tip
- Doublesided adhesive tape



2. Things to know in advance

- Like in the first edition of the 3D Vision glasses, the battery is located at the right side of the glasses (the side without the on/off button)
- There are two methods to replace the battery: almost completely disassemble the glasses or a faster way. This tutorial focuses on the fast method.
- Opening your glasses will void the warranty. As the glasses are discontinued by Nvidia, probably not a big problem. Also, you may damage your glasses beyond repair by trying to fix it yourself. Then again, they are probably already dead, otherwise you wouldn't be following this tutorial. Anyway, proceed at your own risk!

3. Start opening the glasses

- The glasses are held together by three small T3 torx screws, which all are hidden well.
- If you want to disassemble the glasses completely, you have to remove all three of them (be careful, as the chance of breaking your glasses will be bigger). If you only want to replace the battery, you'll only need to remove the right hand side screw (skip steps 4 and 5, proceed directly to step 6).

4. Removing the center screw

Remove the rubber nose protector, the center screw is hidden beneath it. Unscrew it.



5. Removing the left screw

At both sides of the glasses, metal plates with the Nvidia logo are present, hiding the side screws. These plates are glued with a not-so-potent adhesive, and can be removed easily by levering them with your finger nail or small screwdriver.



6. Removing the right screw

Remove the right metal plate (the side without the button), and remove the screw.



7. Removing the large rubber protection strip

To remove the large rubber protection strip at the top, the glasses have to be closed (the hinges bent). After that, the rubber strip can be pulled backwards and removed.



8. Opening the right hand side

In both hinges, two small rectangular slots are present. Push both of them with a small screwdriver to separate the outer shell from the inner part (combined with some prying between both parts).



9. Making room between the parts

Now comes the tricky part. Be careful not to use too much force, otherwise you will break the frame or even the glasses. Pull the inner and outer shell apart a few millimeters at the right side. You'll see the battery and its small connector.



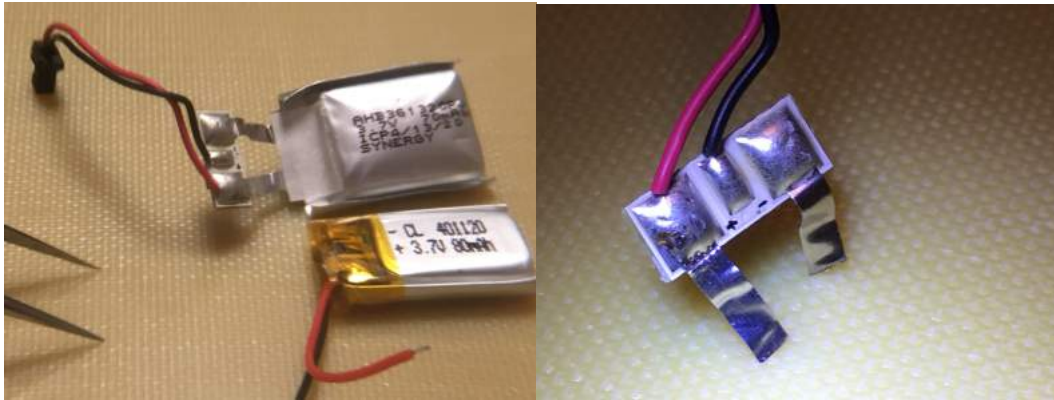
10. Removing the old battery

Using your finger nail or small screwdriver to unplug the battery connector, by moving it down, out of the socket. Once it is unplugged, you can remove the battery. The battery itself is kept in place with a piece of double sided adhesive foam. Just pull it loose. Make sure not to damage any electronic wires/parts. As you can see, my battery was inflated big time, no wonder it was dead...



11. Preparing the new battery, using part of the old battery

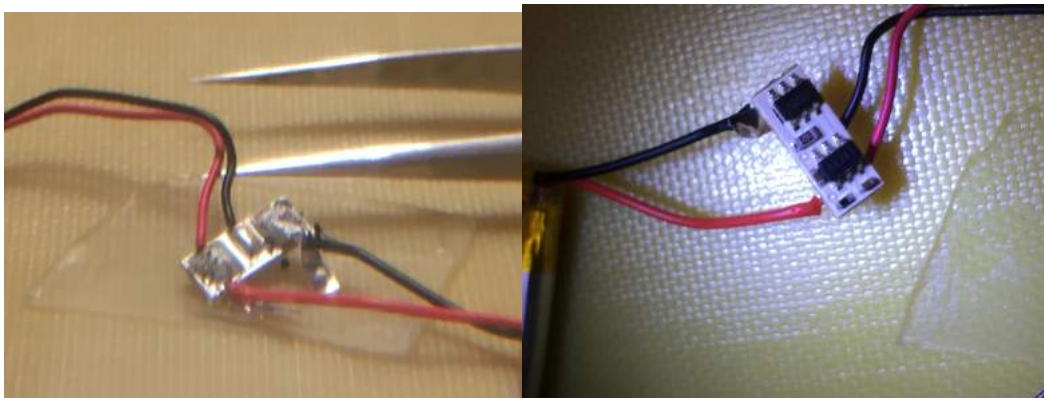
Remove/unwrap the yellow kapton tape from the old battery and keep it (we can use it later). You will now see the old battery circuit. Cut the flat metal strips. We can use this circuit for soldering the new battery to the small connector, without damaging it.



12. Soldering the new battery

Remove the flat metal strips completely from the circuit. You can now solder the wires of the new battery to the circuit. Red to red, black to black.

After that, you can wrap the circuit with the kapton tape we saved from the old battery.



13. Put in the new battery.

After soldering, we can put the new battery into the glasses. Plug in the connector, put a piece of doublesided adhesive tape on the battery and stick it to the inner shell. Make sure all wires are within the frame and don't get damaged. Check if the green light works after pushing the button.

14. Wrapping things up

Click the shells together, put the screw, rubbers and metal plates back in place. Done!